	CRF Error Corrected by the STIC Sy	stems Branch
	10/060/43//	CRF Processing Date: 3//8/2
N	Changed a file from non-ASCII to ASCII	Edited by: (STIC
	Changed the margins in cases where the sequence text was year.	pped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:	
•	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other	
	Added the mandatory heading and subheadings for "Current Application Data".	
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.	
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:	
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:	
	Inserted or corrected a nucleic number at the end of a nucleic line.	SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the sapplicant placed a response below the subheading, this was move	ame line as each subheading. If the d to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited incl	luded:
	Deleted extra, invalid, headings used by an applicant, specifically:	
•	Deleted: non-ASCII "garbage" at the beginning/end of files; page numbers throughout text; other invalid text, such as	secretary initials/filename at end of f
	Inserted mandatory headings, specifically:	
	Corrected an obvious error in the response, specifically:	· · · · · · · · · · · · · · · · · · ·
	Edited identifiers where upper case is used but lower case is requ	ired, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:	
-	A "Hard Page Break" code was inserted by the applicant. All occu	rrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted due to a Patentin bug). Sequences corrected:	I the *(A)Length:* field accordingly (erro
	Other: Seg 1- conscieted anew acid.	runleurg.
	separated C1507 and L1517 resp.	oser
<u></u> .		

^{*}Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



PCT10

RAW SEQUENCE LISTING DATE: 03/18/2002 PATENT APPLICATION: US/10/069,434 TIME: 18:15:06

Input Set : A:\PTO.AMC.txt

```
1 <110> APPLICANT: INCYTE GENOMICS, INC.
              THORNTON, Michael
      2
      3
              RAMKUMAR, Jayalaxmi
              TRIBOULEY, Catherine M.
      5
              YUE, Henry
      6
              NGUYEN, Danniel B.
      7
              YAO, Monique G.
      8
              PATTERSON, Chandra
      9
              GANDHI, Ameena R.
     10
              BURFORD, Neil
              THANGAVELU, Kavitha
              BAUGHN Mariah R.
     14 <120> TITLE OF INVENTION: HUMAN LYASES
     16 <130> FILE REFERENCE: PI-0137 PCT
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/069,434
C--> 19 <141> CURRENT FILING DATE: 2002-02-20
     21 <150> PRIOR APPLICATION NUMBER: 60/213,383
     22 <151> PRIOR FILING DATE: 2000-06-23
     24 <150> PRIOR APPLICATION NUMBER: 60/215,544
     25 <151> PRIOR FILING DATE: 2000-06-30
     27 <150> PRIOR APPLICATION NUMBER: 60/222,818
     28 <151> PRIOR FILING DATE: 2000-08-04
     30 <160> NUMBER OF SEQ ID NOS: 6
     32 <170> SOFTWARE: PERL Program
     34 <210> SEQ ID NO: 1
     35 <211> LENGTH: 242
     36 <212> TYPE: PRT
     37 <213> ORGANISM: Homo sapiens
     39 <220> FEATURE:
     40 <221> NAME/KEY: misc_feature
     41 <223> OTHER INFORMATION: Incyte ID No: 6338333CD1
     43 <400> SEQUENCE: 1
     44 Met Ser Arg Leu Ser Trp Gly Tyr Arg Glu His Asn Gly Pro Ile
     45
     46 His Trp Lys Glu Phe Phe Pro Ile Ala Asp Gly Asp Gln Gln Ser
     47
                         20
     48 Pro Ile Glu Ile Lys Thr Lys Glu Val Lys Tyr Asp Ser Ser Leu
                         35
                                              40
     50 Arg Pro Leu Ser Ile Lys Tyr Asp Pro Ser Ser Ala Lys Ile Ile
                         50
     52 Ser Asn Ser Gly His Ser Phe Asn Val Asp Phe Asp Asp Thr Glu
     54 Asn Lys Ser Val Leu Arg Gly Gly Pro Leu Thr Gly Ser Tyr Arg
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Input Set : A:\PTO.AMC.txt

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90
55
                    80
56 Leu Arg Gln Val His Leu His Trp Gly Ser Ala Asp Asp His Gly
                    95
                                       100
58 Ser Glu His Ile Val Asp Gly Val Ser Tyr Ala Ala Glu Leu His
                   110
                                        115
60 Val Val His Trp Asn Ser Asp Lys Tyr Pro Ser Phe Val Glu Ala
                   125
                                       130
62 Ala His Glu Pro Asp Gly Leu Ala Val Leu Gly Val Phe Leu Gln
                   140
64 Ile Gly Glu Pro Asn Ser Gln Leu Gln Lys Ile Thr Asp Thr Leu
                                        160
66 Asp Ser Ile Lys Glu Lys Gly Lys Gln Thr Arg Phe Thr Asn Phe
                   170
                                        175
68 Asp Leu Leu Ser Leu Leu Pro Pro Ser Trp Asp Tyr Trp Thr Tyr
                   185
                                       190
70 Pro Gly Ser Leu Thr Val Pro Pro Leu Leu Glu Ser Val Thr Trp
                   200
                                        205
72 Ile Val Leu Lys Gln Pro Ile Asn Ile Ser Ser Gln Gln Leu Ala
                   215
                                        220
74 Lys Phe Arg Ser Leu Leu Cys Thr Ala Glu Gly Glu Ala Ala Ala
75
                   230
                                        235
76 Phe Leu
79 <210> SEQ ID NO: 2
80 <211> LENGTH: 460
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
84 <220> FEATURE:
85 <221> NAME/KEY: misc_feature
86 <223> OTHER INFORMATION: Incyte ID No: 1415322CD1
88 <400> SEQUENCE: 2
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                                         10
91 Gly Phe Ser Thr Arg Asp Leu Leu Lys Glu Leu Thr Leu Gly Ala
                    20
93 Ser Gln Ala Thr Thr Asp Glu Val Ala Ala Phe Phe Val Ala Asp
                    35
                                         40
95 Leu Gly Ala Ile Val Arg Lys His Phe Cys Phe Leu Lys Cys Leu
97 Pro Arg Val Arg Pro Phe Tyr Ala Val Lys Cys Asn Ser Ser Pro
99 Gly Val Leu Lys Val Leu Ala Gln Leu Gly Leu Gly Phe Ser Cys
                                                              90
                     80
                                          85
101 Ala Asn Lys Ala Glu Met Glu Leu Val Gln His Ile Gly Ile Pro
                     95
                                         100
103 Ala Ser Lys Ile Ile Cys Ala Asn Pro Cys Lys Gln Ile Ala Gln
                                         115
                    110
105 Ile Lys Tyr Ala Ala Lys His Gly Ile Gln Leu Leu Ser Phe Asp
                    125
                                         130
107 Asn Glu Met Glu Leu Ala Lys Val Val Lys Ser His Pro Ser Ala
```

Input Set : A:\PTO.AMC.txt

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108
                    140
                                        145
                                                             150
109 Lys Met Val Leu Cys Ile Ala Thr Asp Asp Ser His Ser Leu Ser
                   155
                                        160
111 Cys Leu Ser Leu Lys Phe Gly Val Ser Leu Lys Ser Cys Arg His
112
                    170
                                        175
113 Leu Leu Glu Asn Ala Lys Lys His His Val Glu Val Val Gly Val
                    185
                                        190
115 Ser Phe His Ile Gly Ser Gly Cys Pro Asp Pro Gln Ala Tyr Ala
                    200
                                        205
117 Gln Ser Ile Ala Asp Ala Arg Leu Val Phe Glu Met Gly Thr Glu
                    215
                                        220
119 Leu Gly His Lys Met His Val Leu Asp Leu Gly Gly Phe Pro
121 Gly Thr Glu Gly Ala Lys Val Arg Phe Glu Glu Ile Ala Ser Val
                    245
                                        250
123 Ile Asn Ser Ala Leu Asp Leu Tyr Phe Pro Glu Gly Cys Gly Val
                    260
                                        265
125 Asp Ile Phe Ala Glu Leu Gly Arg Tyr Tyr Val Thr Ser Ala Phe
                    275
                                        280
127 Thr Val Ala Val Ser Ile Ile Ala Lys Lys Glu Val Leu Leu Asp
                    290
                                        295
129 Gln Pro Gly Arg Glu Glu Glu Asn Gly Ser Thr Ser Lys Thr Ile
                    305
                                        310
131 Val Tyr His Leu Asp Glu Gly Val Tyr Gly Ile Phe Asn Ser Val
                    320
                                        325
133 Leu Phe Asp Asn Ile Cys Pro Thr Pro Ile Leu Gln Lys Lys Pro
                                         340
135 Ser Thr Glu Gln Pro Leu Tyr Ser Ser Leu Trp Gly Pro Ala
136
                    350
                                        355
137 Val Asp Gly Cys Asp Cys Val Ala Glu Gly Leu Trp Leu Pro Gln
                    365
                                        370
139 Leu His Val Gly Asp Trp Leu Val Phe Asp Asn Met Gly Ala Tyr
                    380
                                        385
                                                             390
141 Thr Val Gly Met Gly Ser Pro Phe Trp Gly Thr Gln Ala Cys His
                    395
                                        400
143 Ile Thr Tyr Ala Met Ser Arg Val Ala Trp Glu Ala Leu Arg Arg
                    410
                                        415
145 Gln Leu Met Ala Ala Glu Gln Glu Asp Asp Val Glu Gly Val Cys
                    425
                                        430
147 Lys Pro Leu Ser Cys Gly Trp Glu Ile Thr Asp Thr Leu Cys Val
148
                    440
149 Gly Pro Val Phe Thr Pro Ala Ser Ile Met
                    455
150
152 <210> SEQ ID NO: 3
153 <211> LENGTH: 328
154 <212> TYPE: PRT
155 <213> ORGANISM: Homo sapiens
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
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Input Set : A:\PTO.AMC.txt

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164 Ile Val Cys Ile Ser Ala Gln Gln Asn Ser Pro Lys Ile His Glu
                     20
                                         25
166 Gly Trp Trp Ala Tyr Lys Glu Val Val Gln Gly Ser Phe Val Pro
                     35
168 Val Pro Ser Phe Trp Gly Leu Val Asn Ser Ala Trp Asn Leu Cys
170 Ser Val Gly Lys Arg Gln Ser Pro Val Asn Ile Glu Thr Ser His
172 Met Ile Phe Asp Pro Phe Leu Thr Pro Leu Arg Ile Asn Thr Gly
                     80
                                         85
174 Gly Arg Lys Val Ser Gly Thr Met Tyr Asn Thr Gly Arg His Val
                                        100
176 Ser Leu Arg Leu Asp Lys Glu His Leu Val Asn Ile Ser Gly Gly
                    110
                                        115
                                                             120
178 Pro Met Thr Tyr Ser His Arg Leu Glu Glu Ile Arg Leu His Phe
179
                    125
                                        130
180 Gly Ser Glu Asp Ser Gln Gly Ser Glu His Leu Leu Asn Gly Gln
                    140
                                        145
182 Ala Phe Ser Gly Glu Val Gln Leu Ile His Tyr Asn His Glu Leu
                    155
                                        160
184 Tyr Thr Asn Val Thr Glu Ala Ala Lys Ser Pro Asn Gly Leu Val
186 Val Val Ser Ile Phe Ile Lys Val Ser Asp Ser Ser Asn Pro Phe
187
                    185
                                        190
188 Leu Asn Arg Met Leu Asn Arg Asp Thr Ile Thr Arg Ile Thr Tyr
                    200
                                        205
190 Lys Asn Asp Ala Tyr Leu Leu Gln Gly Leu Asn Ile Glu Glu Leu
191
                    215
                                        220
192 Tyr Pro Glu Thr Ser Ser Phe Ile Thr Tyr Asp Gly Ser Met Thr
                    230
                                        235
194 Ile Pro Pro Cys Tyr Glu Thr Ala Ser Trp Ile Ile Met Asn Lys
                    245
                                        250
196 Pro Val Tyr Ile Thr Arg Met Gln Met His Ser Leu Arg Leu Leu
                    260
                                        265
                                                             270
198 Ser Gln Asn Gln Pro Ser Gln Ile Phe Leu Ser Met Ser Asp Asn
199
200 Phe Arg Pro Val Gln Pro Leu Asn Asn Arg Cys Ile Arg Thr Asn
                    290
                                        295
202 Ile Asn Phe Ser Leu Gln Gly Lys Asp Cys Pro Asn Asn Arg Ala
                    305
                                         310
204 Gln Lys Leu Gln Tyr Arg Val Asn Glu Trp Leu Leu Lys
205
                    320
                                        325
207 <210> SEQ ID NO: 4
208 <211> LENGTH: 911
209 <212> TYPE: DNA
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Input Set : A:\PTO.AMC.txt

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212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <223> OTHER INFORMATION: Incyte ID No: 6338333CB1
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218 gagcacaacg gtcctattca ctggaaggaa tttttcccta ttgctgatgg tgatcagcaa 120
219 tetecaattg agattaaaac caaagaagtg aaatatgaet etteeeteeg accaettagt 180
220 atcaagtatg acccaagctc agctaaaatc atcagcaaca gcggccattc cttcaatgtt 240
221 gactttgatg acacagagaa caaatcagtt ctgcgtggtg gtcctctcac tggaagctac 300
222 aggttacggc aggttcacct tcactggggg tccgctgatg accacggctc cgagcacata 360
223 gtagatggag tgagctatgc tgcagagctc catgttgttc actggaattc agacaaatac 420
224 occagettig tigaggeage teatgaacea gatggaetgg etgtetiggg agigtitita 480
225 cagattggtg aacctaattc ccaactgcaa aagattactg acactttgga ttccattaaa 540
226 gaaaagggta aacaaactcg attcacaaat tttgacctat tgtctctgct tccaccatcc 600
227 tgggactact ggacatatcc tggttctctt acagttccac ctcttcttga gagtgtcaca 660
228 tggattgttt taaagcaacc tataaacatc agctctcaac agctggccaa atttcgcagt 720
229 ctcctgtgca cagcggaggg tgaagcagca gcttttctgt gatagagtct cactctgtca 780
230 cccaggctgg agggcagtgg tacaatcttg gctaattgca gcctccaact cctggactca 840
231 agtgatecte ceaecteage etceagagte etgaceactg geatgaettt teceaaatge 900
232 cagggggaaa a
                                                                      911
234 <210> SEQ ID NO: 5
235 <211> LENGTH: 2064
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <220> FEATURE:
240 <221> NAME/KEY: misc_feature
241 <223> OTHER INFORMATION: Incyte ID No: 1415322CB1
243 <400> SEQUENCE: 5
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245 ggaggegeeg aggateegat teacteeetg gggagaeeta tgggeegaag eegtgtaaat 120
246 gegttttaag cagaggeete ggeteegeaa etgeeaetee teeteggggt gttgeacaag 180
247 tttcgaggtc accggcgacc cccctagca gcgcgcctgg ctctggcccc cgcgaaggag 240
248 gacggagttt gtgtgttgca tactttctaa ggcggcggct gcagcagcgg ctccatccag 300
249 coogtoagot cotootgoaa ggoatggotg gotacotgag tgaatoggac tttgtgatgg 360
250 tggaggaggg cttcagtacc cgagacctgc tgaaggaact cactctgggg gcctcacagg 420
251 ccaccacgga cgaggtagct gccttcttcg tggctgacct gggtgccata gtgaggaagc 480
252 actititgett tetgaagige eigecaegag teeggeeett tiatgetgie aagigeaaea 540
253 gcagcccagg tgtgctgaag gttctggccc agctggggct gggctttagc tgtgccaaca 600
254 aggcagagat ggagttggtc cagcatattg gaatccctgc cagtaagatc atctgcgcca 660
255 acceetgtaa geaaattgea eagateaaat atgetgeeaa geatgggate eagetgetga 720
256 gctttgacaa tgagatggag ctggcaaagg tggtaaagag ccaccccagt gccaagatgg 780
257 ttctgtgcat tgctaccgat gactcccact ccctgagctg cctgagccta aagtttggag 840
258 tgtcactgaa atcctgcaga cacctgcttg aaaatgcgaa gaagcaccat gtggaggtgg 900
259 tgggtgtgag ttttcacatt ggcagtggct gtcctgaccc tcaggcctat gctcagtcca 960
260 tegeagaege ceggetegtg titgaaatgg geacegaget gggteacaag atgeaegtte 1020
261 tggaccttgg tggtggcttc cctggcacag aaggggccaa agtgagattt gaagagattg 1080
262 cttccgtgat caactcagcc ttggacctgt acttcccaga gggctgtggc gtggacatct 1140
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VERIFICATION SUMMARY

DATE: 03/18/2002

PATENT APPLICATION: US/10/069,434

TIME: 18:15:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03182002\J069434.raw

 $L:18\ M:270\ C:$ Current Application Number differs, Replaced Current Application Number $L:19\ M:271\ C:$ Current Filing Date differs, Replaced Current Filing Date